New Jersey Semi-Conductor Products, Inc.

20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A.

> SINGLE-PHASE BRIDGE RECTIFIER **RS401 THRU RS407**

VOLTAGE RANGE 50 to 1000 Volts 4.0 Amperes CURRENT

MECHANICAL DATA

- Case: Transfer molded plastic
- Terminal: Lead solderable per MIL-STD-202E method 208C
- Mounting: Any
- Weight: 0.22 ounce, 6.21 gram

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RS-4



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%.

			SYMBOLS	RS401	R\$402	RS403	R\$404	RS405	RS406	RS407	UNITS
Maximum Repetitive Peak Reverse Voltage			V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage			V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage			V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at	$T_t = 50 $ °C (Note 2)		I _(AV)	4.0							Amps
	$T_A=50^{\circ}C$ (Note 3)			3.0							
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	150							Amps	
Rating for Fusing (t<8.3ms)			ľ²t	93							$\Lambda^2 s$
Maximum Instantaneous Forward Voltage Drop per bridge element at 4.0A		Vr	1.0						Volts		
Maximum DC Reverse Curren		Т _А =25°С	[_R	10							μAmps
DC blocking voltage per eleme	nt .	T _A =100℃		1.0						mAmps	
Typical Junction Capacitance (Note 1)		CJ	55							pF	
Typical Thermal Resistance (Note 2)			R _{BIA}	20							"C/W
Operating and Storage Temperature Range			TJ, TSTG	-65 to +150							°C
NOTES'										i	

NOTES: 1.

Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

2. 3.

Unit mounted on 3.0"x3.0"x0.11" thick (7.5x7.5x0.3 cm) Al. plate. P.C. Board mount with 0.5"x0.5" (12x12cm) copper pads 0.375" (9.5mm) lead length



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